



**United States Environmental Protection Agency  
Region 9 Laboratory**

**1337 S. 46th Street Building 201  
Richmond, CA 94804**

**Date:** 2/21/2012

**Subject:** Analytical Testing Results - Project R33911  
SDG: 12044A

**From:** Brenda Bettencourt, Director  
EPA Region 9 Laboratory  
MTS-2

**To:** Richard Fetzer  
US EPA Region 3, Eastern Response Branch  
3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

**Analyses included in this report:**

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Purgeable Petroleum Hydrocarbons by GC/FID



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Project Manager:** Richard Fetzer

**Project Number:** R33911

**Project:** Dimock Residential Groundwater

**US EPA Region 3, Eastern Response Branch**

**100 Gypsum Road**

**Stroudsburg PA, 18360**

**SDG:** 12044A

**Reported:** 02/21/12 16:23

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
HW49	1202034-01	Water	02/09/12 14:11	02/11/12 11:15
HW49-P	1202034-02	Water	02/09/12 14:26	02/11/12 11:15
TB35	1202034-03	Water	02/09/12 10:00	02/11/12 11:15
FB14	1202034-04	Water	02/09/12 13:36	02/11/12 11:15
HW44	1202034-05	Water	02/09/12 14:49	02/11/12 11:15
TB36	1202034-06	Water	02/09/12 10:10	02/11/12 11:15
FB15	1202034-07	Water	02/10/12 11:21	02/11/12 11:15
HW36n	1202034-08	Water	02/10/12 10:53	02/11/12 11:15
HW36n-P	1202034-09	Water	02/10/12 11:02	02/11/12 11:15
TB37	1202034-10	Water	02/10/12 07:15	02/11/12 11:15
HW16	1202034-11	Water	02/10/12 11:21	02/11/12 11:15
HW16-P	1202034-12	Water	02/10/12 11:37	02/11/12 11:15
HW16z	1202034-13	Water	02/10/12 11:22	02/11/12 11:15
TB38	1202034-14	Water	02/10/12 07:20	02/11/12 11:15
HW54	1202034-15	Water	02/10/12 14:08	02/11/12 11:15
HW54-P	1202034-16	Water	02/10/12 14:30	02/11/12 11:15
TB39	1202034-17	Water	02/10/12 10:00	02/11/12 11:15

**SDG ID 12044A**

**Work Order(s)**

**1202034**



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**US EPA Region 3, Eastern Response Branch**  
**100 Gypsum Road**  
**Stroudsburg PA, 18360**

**SDG:** 12044A  
**Reported:** 02/21/12 16:23

### Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID: 1202034-01</b>						<b>Water - Sampled: 02/09/12 14:11</b>			
<b>Sample ID:</b> HW49						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			113 %	76-121%		"	"	"	
<b>Lab ID: 1202034-02</b>						<b>Water - Sampled: 02/09/12 14:26</b>			
<b>Sample ID:</b> HW49-P						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			114 %	76-121%		"	"	"	
<b>Lab ID: 1202034-03</b>						<b>Water - Sampled: 02/09/12 10:00</b>			
<b>Sample ID:</b> TB35						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			112 %	76-121%		"	"	"	
<b>Lab ID: 1202034-04</b>						<b>Water - Sampled: 02/09/12 13:36</b>			
<b>Sample ID:</b> FB14						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			112 %	76-121%		"	"	"	
<b>Lab ID: 1202034-05</b>						<b>Water - Sampled: 02/09/12 14:49</b>			
<b>Sample ID:</b> HW44						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	J, Q6, U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			114 %	76-121%		"	"	"	
<b>Lab ID: 1202034-06</b>						<b>Water - Sampled: 02/09/12 10:10</b>			
<b>Sample ID:</b> TB36						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			116 %	76-121%		"	"	"	
<b>Lab ID: 1202034-07</b>						<b>Water - Sampled: 02/10/12 11:21</b>			
<b>Sample ID:</b> FB15						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			110 %	76-121%		"	"	"	
<b>Lab ID: 1202034-08</b>						<b>Water - Sampled: 02/10/12 10:53</b>			
<b>Sample ID:</b> HW36n						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
<i>Surrogate: a,a,a-Trifluorotoluene</i>			114 %	76-121%		"	"	"	
<b>Lab ID: 1202034-09</b>						<b>Water - Sampled: 02/10/12 11:02</b>			
<b>Sample ID:</b> HW36n-P						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	J, Q6, U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380



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**Project Number:** R33911  
**Project:** Dimock Residential Groundwater

**US EPA Region 3, Eastern Response Branch**  
**100 Gypsum Road**  
**Stroudsburg PA, 18360**

**SDG:** 12044A  
**Reported:** 02/21/12 16:23

## Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID: 1202034-09</b>						<b>Water - Sampled: 02/10/12 11:02</b>			
<b>Sample ID:</b> HW36n-P						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
Surrogate: a,a,a-Trifluorotoluene		113 %		76-121%		B2B0056	02/13/12	02/13/12	
<b>Lab ID: 1202034-10</b>						<b>Water - Sampled: 02/10/12 07:15</b>			
<b>Sample ID:</b> TB37						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		107 %		76-121%		"	"	"	
<b>Lab ID: 1202034-11</b>						<b>Water - Sampled: 02/10/12 11:21</b>			
<b>Sample ID:</b> HW16						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		109 %		76-121%		"	"	"	
<b>Lab ID: 1202034-12</b>						<b>Water - Sampled: 02/10/12 11:37</b>			
<b>Sample ID:</b> HW16-P						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		110 %		76-121%		"	"	"	
<b>Lab ID: 1202034-13</b>						<b>Water - Sampled: 02/10/12 11:22</b>			
<b>Sample ID:</b> HW16z						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		108 %		76-121%		"	"	"	
<b>Lab ID: 1202034-14</b>						<b>Water - Sampled: 02/10/12 07:20</b>			
<b>Sample ID:</b> TB38						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		113 %		76-121%		"	"	"	
<b>Lab ID: 1202034-15</b>						<b>Water - Sampled: 02/10/12 14:08</b>			
<b>Sample ID:</b> HW54						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		113 %		76-121%		"	"	"	
<b>Lab ID: 1202034-16</b>						<b>Water - Sampled: 02/10/12 14:30</b>			
<b>Sample ID:</b> HW54-P						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		113 %		76-121%		"	"	"	
<b>Lab ID: 1202034-17</b>						<b>Water - Sampled: 02/10/12 10:00</b>			
<b>Sample ID:</b> TB39						<b>Purgeable Petroleum Hydrocarbons by EPA Method 8015C</b>			
TPH as Gasoline		ND	U	50	ug/L	B2B0056	02/13/12	02/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene		112 %		76-121%		"	"	"	



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### Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B2B0056 - 5030 P&T TPH-G - TPH - Purgeable**

**Prepared & Analyzed:** 02/13/12

**Purgeable Petroleum Hydrocarbons by EPA Method 8015C - Quality Control**

**Blank (B2B0056-BLK1)**

TPH as Gasoline	ND	U		50 ug/L						
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Surrogate: a,a,a-Trifluorotoluene	140			"	125		112	76-121		
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**LCS (B2B0056-BS1)**

TPH as Gasoline	519			50 ug/L	500		104	75-114		
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Surrogate: a,a,a-Trifluorotoluene	147			"	125		118	76-121		
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**Matrix Spike (B2B0056-MS1)** **Source: 1202034-05**

TPH as Gasoline	530			50 ug/L	500	ND	106	71-114	11	
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Surrogate: a,a,a-Trifluorotoluene	145			"	125		116	76-121		
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**Matrix Spike (B2B0056-MS2)** **Source: 1202034-09**

TPH as Gasoline	440			50 ug/L	500	ND	88	71-114	11	
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Surrogate: a,a,a-Trifluorotoluene	136			"	125		109	76-121		
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**Matrix Spike Dup (B2B0056-MSD1)** **Source: 1202034-05**

TPH as Gasoline	470			50 ug/L	500	ND	94	71-114	12	11
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Surrogate: a,a,a-Trifluorotoluene	143			"	125		115	76-121		
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**Matrix Spike Dup (B2B0056-MSD2)** **Source: 1202034-09**

TPH as Gasoline	540			50 ug/L	500	ND	108	71-114	20	11
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Surrogate: a,a,a-Trifluorotoluene	139			"	125		111	76-121		
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**Qualifiers and Comments**

Q6 Matrix spike/matrix spike duplicate precision criteria were not met for this analyte (see MS/MSD results for this batch in QC summary).

J The reported result for this analyte should be considered an estimated value.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.